

## CLAIMS

- 1        1. A method for error processing and reporting during validation of a business  
2 document in a client-server environment, the method including:
  - 3        accessing a first self-describing, structured document having a document type;
  - 4        validating the first document against a schema corresponding to the document  
5        type;
  - 6        generating a second self-describing, structured document including, for any  
7        detected errors,
    - 8            at least one error identifier; and
    - 9            a path specification identifying a node within the primary document  
10            corresponding to the detected error;
  - 11        applying a declarative transformation to the first and second documents,  
12        producing a user interface character string, including a plurality of
    - 13            path specifications for nodes in the first document; and
    - 14            values for nodes in the first document; and
  - 15        at least one error message corresponding to the at least one error identifier; and  
16        transmitting the user interface character string.
- 1        2. The method of claim 1, wherein the schema is compliant with any version of  
2 a SOX standard.
- 1        3. The method of claim 2, further including validating the first document against  
2 a set of business processing rules and generating a third self-describing, structured  
3 document, wherein the declarative transformation is further applied to the third  
4 document.

1        4. The method of claim 1, wherein the declarative transformation is compliant  
2 with an XSLT standard.

1        5. The method of claim 3, wherein the declarative transformation is compliant  
2 with an XSLT standard.

1        6. The method of claim 1, wherein the user interface character string is  
2 compliant with an HTML standard.

1        7. The method of claim 3, wherein the user interface character string is  
2 compliant with an HTML standard.

1        8. The method of claim 5, wherein the user interface character string is  
2 compliant with an HTML standard.

1        9. The method of claim 1, wherein the user interface character string is  
2 compliant with an XML standard.

1        10. The method of claim 3, wherein the user interface character string is  
2 compliant with an XML standard.

1        11. The method of claim 5, wherein the user interface character string is  
2 compliant with an XML standard.

3        12. A method for error processing and reporting during validation of a business  
2 document in a client-server environment, the method including:

3        accessing a first self-describing, structured document having a document type;

4        validating the first document against a set of business processing rules applicable  
5 to the document type and an intended recipient of the first document;

6        generating a second self-describing, structured document including, for any  
7 detected errors,

8        at least one error identifier; and

9        a path specification identifying a node within the primary document  
10 corresponding to the detected error;

11       applying a declarative transformation to the first and second documents,  
 12       producing a user interface character string, including a plurality of  
 13             path specifications for nodes in the first document; and  
 14             values for nodes in the first document; and  
 15       at least one error message corresponding to the at least one error identifier; and  
 16       transmitting the user interface character string.

1       13. The method of claim 12, wherein the business processing rules are  
 2       Schematron-compliant.

1       14. The method of claim 12, wherein the declarative transformation is compliant  
 2       with an XSLT standard.

1       15. The method of claim 13, wherein the declarative transformation is compliant  
 2       with an XSLT standard.

1       16. The method of claim 12, wherein the user interface character string is  
 2       compliant with an HTML standard.

1       17. The method of claim 13, wherein the user interface character string is  
 2       compliant with an HTML standard.

1       18. The method of claim 15, wherein the user interface character string is  
 2       compliant with an HTML standard.

1       19. The method of claim 12, wherein the user interface character string is  
 2       compliant with an XML standard.

1       20. The method of claim 13, wherein the user interface character string is  
 2       compliant with an XML standard.

1       21. The method of claim 15, wherein the user interface character string is  
 2       compliant with an XML standard.

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